UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

 $(Amendment No. 1)^1$

Fate Therapeutics, Inc.
(Name of Issuer)
Common stock, par value \$0.001 per share
(Title of Class of Securities)
31189P 10 2
(CUSIP Number)
December 31, 2017
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
⊠ Rule 13d-1(c)
□ Rule 13d-1(d)
The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.
The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, <i>see</i> the <i>Notes</i>).

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1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □			
			(b) □	
3	OPC VOT ONLY			
3	SEC USE ONLY			
4	CITIZENSHIP OR P	CITIZENSHIP OR PLACE OF ORGANIZATION		
		CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY	6	SHARED VOTING POWER		
EACH				
REPORTING PERSON WITH		0 shares		
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1	NAME OF REPORTING PERSON			
	Biotechnology Value Fund II, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠			
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PERSON WITH	7	SOLE DISPOSITIVE POWER		
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	8	SHARED DISPOSITIVE POWER		
		0 shares		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	0 shares			
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
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11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
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1	NAME OF REPORTING PERSON		
	Biotechnology Value Trading Fund OS LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠		
2			
			(b) □
3	SEC USE ONLY		
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	-
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NUMBER OF	5	SOLE VOTING POWER	
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11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
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12	TYPE OF REPORT	TING DERSON	
14	I I FE OF KEPOKI	INO FERSON	
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1	NAME OF REPORTING PERSON		
	BVF Partner	s OS Ltd.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)		
			(b) □
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3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Cayman Isla	nds	
NUMBER OF	5	SOLE VOTING POWER	-
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		0 shares	
PERSON WITH	7	SOLE DISPOSITIVE POWER	,
		0 shares	
	8	SHARED DISPOSITIVE POWER	-
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9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
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11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
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12	TYPE OF REPORT	TING PERSON	
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11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0% TYPE OF REPORTING PERSON		

1	NAME OF REPORTING PERSON		
	BVF Inc.		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) ⊠		
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		,
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY	_	0 shares	
OWNED BY	6	SHARED VOTING POWER	
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REPORTING PERSON WITH		0 shares	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
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	0%		
12	TYPE OF REPORT	ING PERSON	
	CO		

1	NAME OF REPORT	ING PERSON	
	Mark N. Lampert		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) □		
			(b) 🗆
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	United States		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	0	SHARED VOTING POWER	
REPORTING		0 shares	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
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10	CHECK BOX II TII	E NOOKEONIE MNOOM IN KOW (3) EXCEODES CERMIN SIMILES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	0%		
12	TYPE OF REPORTI	NG PERSON	
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Item 1(a). Name of Issuer:

Fate Therapeutics, Inc., a Delaware corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

3535 General Atomics Court, Suite 200

San Diego, CA 92121

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands

Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104

Cayman Islands

Citizenship: Cayman Islands

BVF Partners L.P. ("Partners") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc.

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities: Common stock, par value \$0.001 per share (the "Common Stock") Item 2(e). CUSIP Number: 31189P 10 2 If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a: Item 3. /x/ Not applicable. // Broker or dealer registered under Section 15 of the Exchange Act. (a) Bank as defined in Section 3(a)(6) of the Exchange Act. (b) // Insurance company as defined in Section 3(a)(19) of the Exchange Act. (c) // (d) // Investment company registered under Section 8 of the Investment Company Act. (e) // An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E). (f) // An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F). (g) // A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G). (h) // A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act. A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act. (i) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J). (j) // (k) // Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), p. the type of institution: Item 4. Ownership (a) Amount beneficially owned: As of the close of business on December 31, 2017, the Reporting Persons no longer beneficially owned any securities of the Issuer. (b) Percent of class: Not Applicable. 10

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [X].

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not Applicable.

Item 8. Identification and Classification of Members of the Group.

See Exhibit 99.1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on December 1, 2016.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: February 14, 2018

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President